

2006 Engineering Conference Breakout Sessions For Period 2 (Monday, November 13, 2006, 3:30-5:00 P.M.)

15. 3P – Primer, Financial Models, Teaming Arrangements

Track: Design

Presenters: Mr. Grant Holland from Wilbur Smith Associates

Synopsis: Session One: 3P Primer

This session will discuss the various forms of 3P delivery methods that can be used. Discussions will include the 3P procurement process, public sector issues, and private sector issues.

Session Two: 3P Financial Models

This session will compare traditional infrastructure financings using tax-exempt municipal debt with concession financing models. The session will discuss the differences in the risk-return calculations between bondholders and equity holders and then apply those differences to a hypothetical toll road project.

Session Three: 3P Teaming Arrangements

This session will look at typical teaming arrangements for 3Ps involving both Brownfield and Greenfield projects. Emphasis will be placed on how the different project types dictate different team structures and the relative importance of different team members.

Time Required: 90 minutes

16. Maintenance Issues for Designers

Track: Design

Presenters: Maintenance

Synopsis: There are many ways to design roads and roadway features. This session will present issues to consider when selecting design alternatives.

Time Required: 50 minutes

39. I-15 Express Lane – Planning, Design and Implementation

Track: System Planning/Programming

Presenters: Tim Rose, Eric Rasband, Mike Kaczorowski, Dave Kinnecom and Bryan Chamberlain

Synopsis: The Express Lane on I-15 is a congestion management project to improve travel times on the corridor by allowing a limited number of single occupant vehicles to purchase the right to drive in the High Occupancy Vehicle lane. Presentation covers the following topics for the I-15 Express Lane:

- Planning, History, and Legislation
- Operational analysis
- Design
- Implementation
- Current Operation
- Preliminary findings will be presented

Time Required: 90 minutes

49. A systematic Approach to Cold In Place Recycling as a Rehabilitation , Joint FHWA and EPA initiative of Green Highways and National Review of Cold In-place Asphalt Recycling.

Track: Materials

Presenters: Stephane Charmot, SEM Materials, Jason Harrington, FHWA Asphalt pavement Engineer, Bryan Cawley, FHWA Assistant Division Administrator

Synopsis: Systematic Approach will be an overview of rehabilitation strategies and challenges, Programmatic guidelines for CIR selection (system level), Job site selection and CIR guidelines (project level) and analysis and critical parameters for successful CIR projects.

The Green Highways Initiative is a voluntary, collaborative, public/private effort designed to identify & promote streamlining and environmental stewardship in transportation planning, design, construction, and/or operation and maintenance through integrated partnerships, flexibility, rewards, and market-based solutions.

Cold In-place Asphalt Recycling is a method of utilizing the existing fatigued, hardened, and distressed asphalt pavement to produced a rejuvenated asphalt stabilized base. The base material is then capped with a structural wearing course of sufficient strength to withstand the governing loading.

Time Required: 90 minutes

50. Good Concrete Construction Practices, Fast Track Concrete Paving, Alternative Textures for Concrete Pavements

Track: Materials

Presenters: Ben Blankenship, Mike Ayers, Larry Scofield

Synopsis: Concrete pavements that are properly designed and well constructed are long-lasting, low maintenance and economical. Good performance requires uniform support, consistent thickness, adequate entrained air content, minimum strength, effective load transfer and numerous other factors. This session will focus on proven techniques for constructing concrete pavements as well as recent innovations in equipment, materials and processes. The latest research on optimizing the surface texture of concrete pavements for safety and performance will be discussed. Fast-track paving techniques will also be discussed as an alternative to conventional construction when early opening to traffic is necessary. A recent project that involved the full lane removal and replacement of up to ½ mile per night under heavy Interstate traffic will be highlighted.

Time Required: 90 minutes

61. PreFab Bridges – Rapid Replacement

Track: Structures

Presenters: Boyd Wheeler, Richard Miller

Synopsis: This breakout session will look at efforts to implement Prefab bridges and accelerated bridge practices in Utah. Past successes will be discussed. Current efforts will be detailed and future opportunities will be discussed.

Time Required: 50 minutes

68. Program Development Training (STIP & Funding)

Track: Project Management

Presenters: Max Ditlevsen, Robert Pelly, Rebecka Stromness

Synopsis: An overview of the ePM enhancement project to add STIP and Obligation of Funds reporting capability to the ePM system. Information will be provided on submitting projects for funding consideration, selecting projects for the STIP, amending projects, and financial reporting of federal and state obligation of funds to projects.

Time Required: 90 minutes (Internet Access)

72. Leadership and Time Management

Track: Leadership

Presenters: Rick Murdock

Synopsis: The scenario is a DeCoster Time Management refresher course. Fourteen common time managment questions will be answered. David Allen's process for Getting Things Done will also be showcased.

Time Required: 50 minutes